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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PATENT APPLICATION of Hong et al.

Appln. No.: 09/878,131

Group Art Unit: 1637

Filed: June 8, 2001

Examiner: S. Chunduru

Title: Low-Temperature Cycle Extension of DNA with High Priming Specificity

\* \* \* \* \*

October 24, 2002

AMENDMENT

Hon. Commissioner of Patents  
and Trademarks  
Washington, D.C. 20231

Sir:

Responsive to the Office Action dated July 24, 2002 in connection with the above-referenced application, please enter the following amendments and consider the following remarks.

IN THE CLAIMS:

Please cancel non-elected claims 12-17 without prejudice or disclaimer.

Please amend claims 1, 2, 8 and 9 as follows.

(Amended) A method for extending an oligonucleotide primer or a pair of oligonucleotide primers using an enzymatic cycle primer extension reaction at temperatures between about 45°C and about 65°C, and a melting temperature of about 70°C, comprising the step of mixing a template DNA with a primer or a pair of primers and a natural or a modified form of a moderately thermostable DNA polymerase from an organism selected from the group consisting of *Bacillus stearothermophilus*, *Bacillus caldotenax* and *Bacillus caldolyticus*, wherein the DNA polymerase has proofreading 3'-5' exonuclease activity during DNA primer extension over a template, such that the DNA

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AMENDMENT TRANSMITTAL LETTER (Small Entity)				Docket No. Lee113	
Applicant(s): Hong et al.		Serial No. 09/878,031 09/878,131		Filing Date June 8, 2001	
Examiner S. Chunduru		Group Art Unit 1637		Invention: Low Temperature Cycle Extension of DNA with High Priming Specificity	
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TO THE ASSISTANT COMMISSIONER FOR PATENTS:				TECH CENTER 1600/2900	
Transmitted herewith is an amendment in the above-identified application.					
<input checked="" type="checkbox"/> Small Entity status of this application has been established under 37 CFR 1.27 by a verified statement previously submitted.					
<input type="checkbox"/> A verified statement to establish Small Entity status under 37 FR 1.27 is enclosed.					
The fee has been calculated and is transmitted as shown below.					
CLAIMS AS AMENDED					
	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST # PREV. PAID FOR	NUMBER EXTRA CLAIMS PRESENT	RATE	ADDITIONAL FEE
TOTAL CLAIMS	29 -	20 =	9 x	\$9.00	\$81.00
INDEP. CLAIMS	4 -	3 =	1 x	\$42.00	\$42.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
TOTAL ADDITIONAL FEE FOR THIS AMENDMENT					\$123.00
<input type="checkbox"/> No additional fee is required for amendment.					
<input checked="" type="checkbox"/> Please charge Deposit Account No. 500867 in the amount of \$123.00 A duplicate copy of this sheet is enclosed.					
<input type="checkbox"/> A check in the amount of to cover the filing fee is enclosed.					
<input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 500867 A duplicate copy of this sheet is enclosed.					
<input checked="" type="checkbox"/> Any additional filing fees required under 37 C.F.R. 1.16.					
<input checked="" type="checkbox"/> Any patent application processing fees under 37 CFR 1.17.					
Signature Marlana Titus, Reg. No. 35,843 Nash & Titus, LLC 3415 Brookeville Road Suite 1000 Brookeville, MD 20833 (301) 762-8214				Dated: October 24, 2002	
I certify that this document and fee is being deposited on Oct. 24, 2002 with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.					
Signature of Person Mailing Correspondence Marlana Titus Typed or Printed Name of Person Mailing Correspondence					

Adjustment Date: 10/31/2002 WABDELRI  
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01 FD:2201 42.00 CR  
02 FD:2202 81.00 CR  
03 FD:1806 180.00 CR